	Application No.	Applicant(s)		
Notice of Allowability	10/813,161	CARR, CHARLES I	D.	
	Examiner	Art Unit		
	James D. Stein	2874		
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the co (OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to and MPEP 1308.	orrespondence addro olication. If not include will be mailed in due	ed course. THIS	
1. This communication is responsive to the amendment filed	<u>on 05/15/06</u> .			
2. The allowed claim(s) is/are 1 and 3-10.				
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Application No		tion from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the red	quirements	
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			OTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) I including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-9	948) attached		
1) 🗌 hereto or 2) 📗 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of	
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 			lote the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal Pa	atent Application (PT0	D-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		erview Summary (PTO-413),		
Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date		Paper No./Mail Date 7.		
 Examiner's Comment Regarding Requirement for Deposit of Biological Material John D. 	8. ⊠ Examiner's Stateme 9. □ Other Lee	James D. Stein Patent Examiner, A		
John D. Lee Primary Examiner				

U.S. Patent and Trademark Office PTOL-37 (Rev. 7-05)

DETAILED ACTION

This Office Action is responsive to the amendment filed on 05/15/06, which has been fully considered and entered. Claims 1, 3, 5, 9 and 10 have been amended. Claim 2 has been cancelled. Claims 1 and 3-10 are pending in the application.

Allowable Subject Matter

Claims 1 and 3-10 are allowed

With regard to claims 1, 3 and 4-9, none of the prior art of record discloses or suggests the optical alignment apparatus previously claimed, wherein the sliding and base plates include features being simultaneously chemically etched; wherein the base plate includes a slot for guiding said sliding plate, and an underside surface which includes first etched regions on either side of said slot, and wherein the sliding plate includes extended portions including transversely projecting tabs, upper surfaces of said tabs being in contact with said first etched regions. The etched regions discussed in the Deane reference are intended for mounting optical components, rather than for providing structural features that facilitate the motion of the sliding and rotating plates. It would not have been obvious at the time of the invention to one of ordinary skill in the art to modify the prior art to achieve these structural features, as applicant has discovered that these features improve alignment tolerances.

With regard to claim 10, none of the cited prior art discloses or suggests a method of aligning optical components, comprising; providing a base plate, and a sliding plate and a rotatable plate mountable on said base plate; said plates being prepared through an etching process, assembling said sliding plate and said rotatable plate to said base plate; attaching optical components to said sliding plate and said rotatable plate; attaching a linear stage to said sliding

Application/Control Number: 10/813,161

Art Unit: 2874

plate for positioning thereof; aligning said optical components by positioning said sliding plate and said rotatable plate, and soldering said rotatable plate and said sliding plate to said base plate at heat isolation locations thereof. Bourcier does not teach etching. Since Bourcier is able to optically align optical components as desired, it would not have been obvious at the time of the invention to one of ordinary skill in the art to modify the prior art to achieve these structural features, as applicant has discovered that these features improve alignment tolerances.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James D. Stein whose telephone number is (571) 272-2132. The examiner can normally be reached on M-F (8:00am-4:30pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James D. Stein

John D. Lee Primary Examiner Page 3